

*AMENDMENTS TO THE CLAIMS*

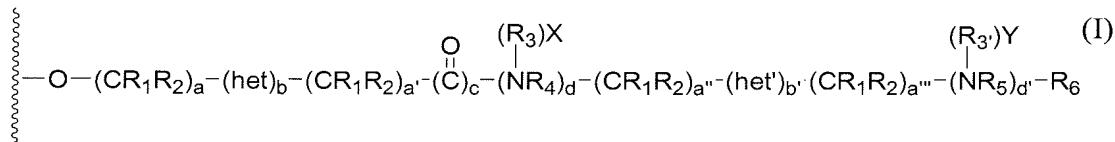
This listing of claims replaces all prior versions, and listings, of claims in the application.

1. (Currently Amended) A chromatographic material comprising:

- (a) a terminal binding functionality;
- (b) a hydrophobic linker comprising at least one functionality that is different from the terminal binding functionality; and
- (c) a solid support,

wherein

the hydrophobic linker links the terminal binding functionality to the solid support; and the chromatographic material is capable of binding bovine albumin at physiological ionic strength, wherein the chromatographic material has the following general formula I:



wherein

$R_1$ ,  $R_2$ ,  $R_4$ , and  $R_5$ , at each occurrence, are independently selected from the group consisting of H, C<sub>1-6</sub>-alkyl, C<sub>1-6</sub>-alkoxy, C<sub>1-6</sub>-alkyl-C<sub>1-6</sub>-alkoxy, aryl, C<sub>1-6</sub>-alkaryl, -NR'C(O)R'', -C(O)NR'R'', and hydroxy,

wherein R' and R'' are independently selected from C<sub>1-6</sub>-alkyl, and

wherein no more than one of  $R_1$  and  $R_2$  is hydroxy;

$R_6$  is selected from the group consisting of H, C<sub>1-6</sub>-alkyl, aryl, C<sub>1-6</sub>-alkaryl, -C(O)OH, -S(O)<sub>2</sub>OH, and -P(O)(OH)<sub>2</sub>;

$R_3$  and  $R_{3'}$ , together with X and Y, respectively, may independently be absent or present,

and if present, then  $R_3$  and  $R_{3'}$  are independently selected from the group

consisting of H, C<sub>1-6</sub>-alkyl, C<sub>1-6</sub>-alkoxy, C<sub>1-6</sub>-alkyl-C<sub>1-6</sub>-alkoxy, aryl, and C<sub>1-6</sub>-alkaryl,

wherein X and Y, independently of each other, represent anions;

~~het and het' are heteroatom moieties independently selected from the group consisting of O, S, S(O), and S(O)<sub>2</sub>;~~  
~~a is 3;~~  
~~a, a', a'', and a''' are independently selected from the integers 0 through 6;~~  
~~b and b' are both independently 0 or 1;~~  
~~c is 0 or 1, and if c is 1, then (R<sub>3</sub>)X is absent;~~  
~~d is 1;~~  
~~d' is 0;~~  
~~d and d' are independently 0 or 1; and~~  
the wavy line represents the solid support.

2-6. (Canceled).

7. (Withdrawn – Currently Amended) The chromatographic material according to claim 1 ~~6~~, wherein at least one ~~two~~ of ~~a~~, a', a'', and a''' is ~~are~~ 3.

8-29. (Canceled).

30. (Currently Amended) The chromatographic material according to claim 1 ~~29~~, wherein R<sub>6</sub> is H, C<sub>1-6</sub>-alkyl, aryl, or C<sub>1-6</sub>-alkaryl.

31. (Original) The chromatographic material according to claim 30, wherein R<sub>6</sub> is selected from C<sub>1-6</sub>-alkyl and aryl.

32. (Withdrawn) The chromatographic material according to claim 31, wherein R<sub>6</sub> is phenyl.

33. (Withdrawn) The chromatographic material according to claim 31, wherein one of a'' and a''' is 1 and the other is 1 or 2.

34. (Withdrawn – Currently Amended) The chromatographic material according to claim 1 ~~29~~, wherein R<sub>6</sub> is -C(O)OH, -S(O)<sub>2</sub>OH, and -P(O)(OH)<sub>2</sub>.

35. (Withdrawn) The chromatographic material according to claim 34, wherein one of a'' and a''' is 1 and the other is 1 or 2.

36-48. (Canceled).

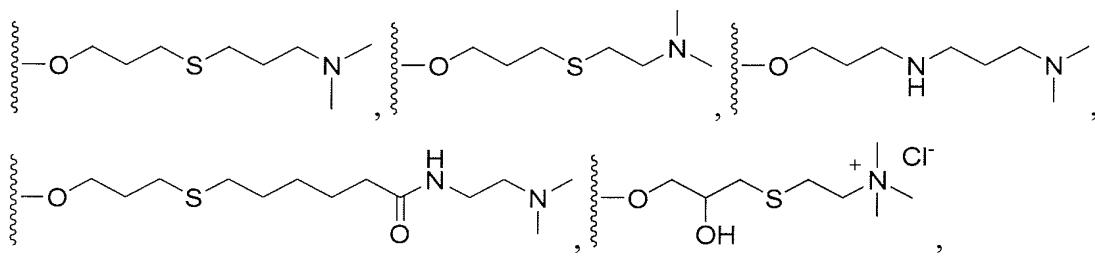
49. (Withdrawn – Currently Amended) The chromatographic material according to claim 1, wherein

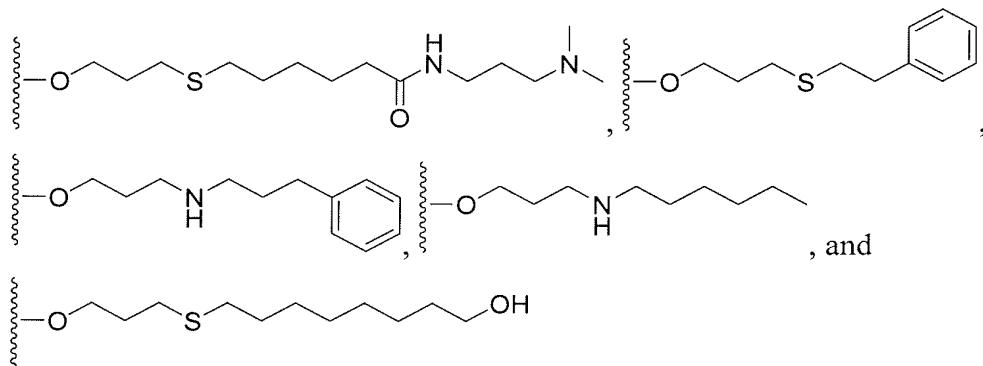
~~a or a' is 3, the other being 0; and~~  
~~a'' or a''' is 3½;~~  
~~each of b, b', and c is 0; and~~  
~~d is 1.~~

50-51. (Canceled).

52. (Currently Amended) ~~The A chromatographic material comprising: according to claim 1,~~

- (a) a terminal binding functionality;
- (b) a hydrophobic linker comprising at least one functionality that is different from the terminal binding functionality; and
- (c) a solid support,  
wherein  
the hydrophobic linker links the terminal binding functionality to the solid support;  
and the chromatographic material is capable of binding bovine albumin at  
physiological ionic strength, wherein the chromatographic material has a formula  
selected from the group consisting of:





53. (Original) The chromatographic material according to claim 1, wherein the solid support is an organic material.

54. (Original) The chromatographic material according to claim 53, wherein the organic material is one selected from the group consisting of cellulose, agarose, dextran, polyacrylates, polystyrene, polyacrylamide, polymethacrylamide, copolymers of styrene and divinylbenzene, and mixtures thereof.

55. (Withdrawn) The chromatographic material according to claim 1, wherein the solid support is an inorganic material.

56. (Withdrawn) The chromatographic material according to claim 55, wherein the inorganic material is one selected from the group consisting of silica, zirconia, alumina, titania, ceramics, and mixtures thereof.

57. (Original) The chromatographic material according to claim 1, wherein the solid support is in the form of a bead or particle.

58. (Withdrawn) The chromatographic material according to claim 1, wherein the solid support is a planar solid support.

59. (Withdrawn) The chromatographic material according to claim 58, wherein the chromatographic material is in the form of a biochip.

60. (Withdrawn) The chromatographic material according to claim 59, wherein the solid support is selected from the group consisting of a metal, metal oxide, silicon, glass, a polymer, and a composite material.

61. (Withdrawn) The chromatographic material according to claim 59, wherein a multitude of terminal binding functionalities and the hydrophobic linkers to which the terminal binding functionalities are linked are segregated into a plurality of addressable locations on the solid support.

62. (Withdrawn) The chromatographic material according to claim 59, wherein the biochip is a mass spectrometer probe.

63. (Withdrawn) The chromatographic material according to claim 61, wherein at least two different addressable locations comprise the same terminal binding functionality and hydrophobic linker.

Claims 64-98 (Canceled).

99. (Previously Presented) The chromatographic material of claim 1, wherein R<sub>1</sub>, R<sub>2</sub>, R<sub>4</sub>, and R<sub>5</sub>, at each occurrence, are independently selected from the group consisting of H, C<sub>1-6</sub>-alkyl, C<sub>1-6</sub>-alkoxy, C<sub>1-6</sub>-alkyl-C<sub>1-6</sub>-alkoxy, -NR'C(O)R'', -C(O)NR'R'', and hydroxy,  
wherein R' and R'' are independently selected from C<sub>1-6</sub>-alkyl, and  
wherein no more than one of R<sub>1</sub> and R<sub>2</sub> is hydroxy; and,  
R<sub>6</sub> is selected from the group consisting of H, C<sub>1-6</sub>-alkyl, -C(O)OH, -S(O)<sub>2</sub>OH, and -P(O)(OH)<sub>2</sub>.

100. (Previously Presented) The chromatographic material of claim 1, wherein R<sub>6</sub> is selected from the group consisting of C<sub>1-6</sub>-alkyl, -C(O)OH, -S(O)<sub>2</sub>OH, and -P(O)(OH)<sub>2</sub>.

101. (Canceled).

102. (Currently Amended) The chromatographic material of claim 1, wherein

~~a is 3;~~

a" is 0 or 3;

~~d is 1;~~

~~a', and a'', b, b', e, and d'~~ are both all 0;

(R<sub>3</sub>)X is absent;

each R<sub>1</sub>, R<sub>2</sub>, and R<sub>4</sub>, is H; and

R<sub>6</sub> is selected from the group consisting of C<sub>1-6</sub>-alkyl and aryl.

103. (Currently Amended) The chromatographic material of claim 1, wherein

~~a is 3;~~

~~d is 1;~~

~~a', a'', and a''', b, b', e, and d'~~ are all 0;

(R<sub>3</sub>)X is absent;

each R<sub>1</sub>, R<sub>2</sub>, and R<sub>4</sub>, is H; and

R<sub>6</sub> is selected from the group consisting of C<sub>1-6</sub>-alkyl.

104. (Withdrawn – Currently Amended) The chromatographic material of claim 1, wherein

~~a is 3;~~

a" is 3;

~~d is 1;~~

~~a', and a''', b, b', e, and d'~~ are both all 0;

(R<sub>3</sub>)X is absent;

each R<sub>1</sub>, R<sub>2</sub>, and R<sub>4</sub>, is H; and

R<sub>6</sub> is selected from the group consisting of aryl.

105. (New) The chromatographic material of claim 103, wherein R<sub>6</sub> is C<sub>6</sub>-alkyl.